BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

Item No:	11	First and Part
Item Name:	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100	

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Footing								
	F1	4	2.60	2.80	2.80	2.80	0.15	4.37	
	F2	2	3.00	3.20	3.20	3.20	0.15	2.88	
	F3	3	3.10	3.20	3.20	3.20	0.15	4.46	
	F4	6	3.50	3.80	3.80	3.80	0.15	11.97	
	F5	2	3.80	4.00	4.00	4.00	0.15	4.56	
	F6	1	4.20	4.40	4.40	4.40	0.15	2.77	
	F7	1	2.65	3.20	3.20	3.20	0.15	1.27	
	Retaining Wall	1	47.30	2.30	2.30	2.30	0.15	16.32	
	For Stair Case	1	4.30	0.45	0.45	0.45	0.15	0.29	
	For Flooring								
	Area 1	1	14.83	12.10	12.10	12.10	0.15	26.92	
	Area 2	1	5.40	1.15	1.15	1.15	0.15	0.93	
	Area 3	1	7.79	2.50	2.50	2.50	0.15	2.92	
	Area 4	1	11.95	6.00	6.00	6.00	0.15	10.76	
	Area 5	1	92.69				0.15	13.90	
	Area 6	1	12.90				0.15	1.94	
	Deduction								

CJFC

Assistant Executive Engineer
R.R. Nagar Project Sub-Division-01
Bruhat Bangaluru Mahanagara Palike

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	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Duct	-1	1.5	1.3	1.3	1.3	0.15	-0.29	cypc
							Total Qty Work Done	105.96	Cum
							Qty Payable in this bill	105.96	Cum

Contractor Representative

QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	13
Item Name:	9 KSRRB M2100-16.2. Providing and laying Plain / Reinforced Cement Concrete design mix M25 with OPC @ 340kgs, with 40mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplasticizer @3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specifications including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No.1500,1700 & 2100

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Plinth Beam								
	P1	1	5.00	0.30	0.30	0.30	0.45	0.68	
	P2	1	10.70	0.30	0.30	0.30	0.45	1.44	
	P3	1	17.70	0.30	0.30	0.30	0.45	2.39	
	P4	1	5.50	0.30	0.30	0.30	0.45	0.74	
	P5	1	7.95	0.30	0.30	0.30	0.45	1.07	
	P6	1	11.50	0.30	0.30	0.30	0.45	1.55	
	P7	1	18.65	0.30	0.30	0.30	0.45	2.52	
	P8	1	15.50	0.30	0.30	0.30	0.45	2.09	
	For Stair case								
	Flight Waist slab	1	4.30	3.10	3.10	3.10	0.15	2.00	
	Steps	10	4.30	0.30	0.30	0.30	0.15	1.94	
	Landing	1	4.30	0.45	0.45	0.45	0.15	0.29	
	Landing Beam	1	4.30	0.45	0.45	0.45	0.30	0.58	
							Total Qty Work Done	**17.29**	**cum**
							Qty Limited Payable in this bill	**17.29**	**cum**

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

Assistant Executive Engineer
R.R. Nagar Project Sub-Division
Bruhat Bengaluru Mahanagara Palike

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	17
Item Name:	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges)

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Footing		**Basement floor**						
F1	4	2.30	2.50	2.50	2.50	0.58	13.23	
F2	2	2.70	2.90	2.90	2.90	0.65	10.18	
F3	3	2.80	3.10	3.10	3.10	0.70	18.23	
F4	6	3.20	3.50	3.50	3.50	0.85	57.12	
F5	2	3.50	3.70	3.70	3.70	0.90	23.31	
F6	1	3.90	4.10	4.10	4.10	0.93	14.79	
F7	1	2.35	2.90	2.90	2.90	0.65	4.43	
Retaining Wall	1	47.30	2.30	2.30	2.30	0.35	38.07	
		Pedestals						
C1	7	0.90	0.45	0.45	0.45	1.00	2.84	
Retaining Wall	1	47.30	0.23	0.23	0.23	1.50	16.32	
Retaining Wall	1	34.75	0.23	0.23	0.23	0.85	6.79	
	1	82.05	0.23	0.23	0.23	2.60	49.06	
		Basement Floor Below Plinth Beams						
C1	1	0.30	0.60	0.60	0.60	0.60	0.32	
C2	15	0.30	0.75	0.75	0.75	0.60	2.03	
C3	1	0.30	0.90	0.90	0.90	0.60	0.16	
		Basement Floor Above Plinth Beams						
C1	3	0.30	0.60	0.60	0.60	3.00	1.62	
C2	15	0.30	0.75	0.75	0.75	3.00	10.13	
C3	1	0.30	0.90	0.90	0.90	3.00	0.81	
Basement Beam								
B1	1	99.35	0.30	0.30	0.30	0.60	17.88	
B2	1	20.96	0.23	0.23	0.23	0.60	4.82	
B3	1	64.48	0.23	0.23	0.23	0.75	14.83	

Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Assistant Commissioner
Project Sub Division
Bruhat Bengaluru Mahanagara Palike

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CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Roof Slab		Basement Floor Roof Slab						
Area 1	1	14.83	12.10	12.10	12.10	0.15	26.92	
Area 2	1	5.40	1.15	1.15	1.15	0.15	0.93	
Area 3	1	7.79	2.50	2.50	2.50	0.15	2.92	
Area 4	1	11.95	6.00	6.00	6.00	0.15	10.76	
Area 5	1	92.69				0.15	13.90	
Area 6	1	12.90				0.15	1.94	
Deduction								
Duct	-1	1.5	1.3	1.3	1.3	0.15	-0.29	
		Ground floor Column						
C1	3	0.30	0.60	0.60	0.60	3.00	1.62	
C2	15	0.30	0.75	0.75	0.75	3.00	10.13	
C3	1	0.30	0.90	0.90	0.90	3.00	0.81	
Ground Floor Beam								
B1	1	89.45	0.30	0.30	0.30	0.60	16.10	
B2	1	20.96	0.23	0.23	0.23	0.45	4.82	
B3	1	64.48	0.23	0.23	0.23	0.75	14.83	
Roof Slab		**Ground Floor Roof Slab**						
Area 1	1	14.83	12.10	12.10	12.10	0.15	26.92	
Area 2	1	5.40	1.15	1.15	1.15	0.15	0.93	
Area 3	1	7.79	2.50	2.50	2.50	0.15	2.92	
Area 4	1	11.95	6.00	6.00	6.00	0.15	10.76	
	1	6.00	4.80	4.80	4.80	0.15	4.32	
	1	17.30	1.50	1.50	1.50	0.15	3.89	
	1	43.05	0.23	0.23	0.23	0.15	1.49	
Area 5	1	92.69				0.15	13.90	
Area 6	1	12.90				0.15	1.94	
Deduction								

Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Assistant Executive Engineer
R.R. Nagar Project Sub-Division-01
Bruhat Bengaluru Mahanagara Palike

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	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Duct	-1	1.5	1.3	1.3	1.3	0.15	-0.29	
							Total Qty Work Done	479.11	Cum
							Qty Limited Payable in this bill Up to 125 %	325.54	Cum
							Qty Limited Payable in this bill Above 125 %	153.57	Cum

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	22
Item Name:	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2$15

	CHAINAGE / Land Mark	NO	Sides	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Footing									
	F1	4	1	9.80	-	-	-	0.73	28.42	
	F2	2	1	11.40	-	-	-	0.80	18.24	
	F3	3	1	12.10	-	-	-	0.85	30.86	
	F4	6	1	13.70	-	-	-	1.00	82.20	
	F5	2	1	14.60	-	-	-	1.00	29.20	
	F6	1	1	16.20	-	-	-	1.08	17.42	
	F7	1	1	11.05	-	-	-	0.80	8.84	
	Retaining Wall Base1	1	1	189.20	-	-	-	0.50	94.60	
	Pedestals									
	C1	7	1	1.80				0.60	7.56	
								Total Qty Work Done	**317.33**	**sqm**
								Qty Limited Payable in this bill	**317.33**	**sqm**

Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	23
Item Name:	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Plinth Beam								
	P1	1	10.00	-	-	-	0.60	6.00	
	P2	1	21.40	-	-	-	0.60	12.84	
	P3	1	35.40	-	-	-	0.60	21.24	
	P4	1	11.00	-	-	-	0.60	6.60	
	P5	1	15.90	-	-	-	0.60	9.54	
	P6	1	23.00	-	-	-	0.60	13.80	
	P7	1	37.30	-	-	-	0.60	22.38	
	P8	1	31.00	-	-	-	0.60	18.60	
	For Roof Beam								
	B1	1	198.70	-	-	-	0.45	89.42	
	B2	1	41.92	-	-	-	0.45	18.86	
	B3	1	128.96	-	-	-	0.75	96.72	
							Total Qty Work Done	**316.00**	**sqm**
							Qty Limited Payable in this bill	**316.00**	**sqm**

Assistant Executive Engineer
RR Nagar Project Sub-Division
Bruhat Bangaluru Mahanagara Palike

Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	28
Item Name:	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
			Pedestals						
	C1	7	2.70				1.00	18.90	
			Basement Floor Below Plinth Beams						
	C1	3	1.80				0.60	3.24	
	C2	15	2.10				0.60	18.90	
	C3	1	2.40				0.60	1.44	
			Basement Floor Above Plinth Beams						
	C1	3	1.80				3.00	16.20	
	C2	15	2.10				3.00	94.50	
	C3	1	2.40				3.00	7.20	
			Ground floor Column						
	C1	3	1.80				3.00	16.20	
	C2	15	2.10				3.00	94.50	
	C3	1	2.40				3.00	7.20	
							Total Qty Work Done	**278.28**	**Sqm**
							Qty Limited Payable in this bill	**278.28**	**Sqm**

Assistant Executive Engineer R.R. Nagar Project Sub Bruhat Bengaluru Mahanagara Palike

Contractor Representative

QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	16
Item Name:	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Roof Slab		Basement Floor Roof Slab						
	Area 1	1	14.83	12.10	12.10	12.10		179.44	
	Area 2	1	5.40	1.15	1.15	1.15		6.21	
	Area 3	1	7.79	2.50	2.50	2.50		19.48	
	Area 4	1	11.95	6.00	6.00	6.00		71.70	
	Area 5	1	92.69					92.69	
	Area 6	1	12.90					12.90	
	Deduction								
	Duct	-1	1.5	1.3	1.3	1.3		-1.95	
	Roof Slab		Ground Floor Roof Slab						
	Area 1	1	14.83	12.10	12.10	12.10		179.44	
	Area 2	1	5.40	1.15	1.15	1.15		6.21	
	Area 3	1	7.79	2.50	2.50	2.50		19.48	
	Area 4	1	11.95	6.00	6.00	6.00		71.70	
		1	6.00	4.80	4.80	4.80		28.80	
		1	17.30	1.50	1.50	1.50		25.95	
		1	43.05	0.23	0.23	0.23		9.90	
	Area 5	1	92.69					92.69	
	Area 6	1	12.90					12.90	
	Deduction								

Assistant Executive Engineer
R.R. Nagar Project Sub-Division-01
Bruhat Bengaluru Mahanagara Palike

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	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Duct	-1	1.5	1.3	1.3	1.3		-1.95	
							Total Qty Work Done	825.59	Sqm
							Qty Limited Payable in this bill Up to 125 %	740.13	Sqm
							Qty Limited Payable in this bill Above 125 %	85.46	Sqm

Contractor Representative

QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	38									
Item Name:	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications.									
	CHAINAGE / **Land Mark**	**NO**	**L** (m)	**B** (m)	**B1** (m)	**Avg B** (m)	**D** (m)	**QTY**	**REMARKS**	
			Basement Floor Roof Slab Edge							
	Allround	1	97.05				0.20	19.41		
			Ground Floor Roof Slab Edge							
	Allround	1	90.11				0.20	18.02		
							Total Qty Work Done	**37.43**	**Sqm**	
							Qty Limited Payable in this bill	**37.43**	**Sqm**	

Contractor Representative

QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

4th and Part

Item No:	80	
Item Name:	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. TMT bars Fe 500 and as directed by the engineer incharge of work. a) Roads	

Sl No	Description of work	No.		length		Total length	Remarks	
	10mm dia bar for column mat							
	F1,	4	92	2.50	=	920.00		
		4	100	2.70	=	1080.00		
						2000.00	mtr	
					@	**0.62**	**1240.00**	Kg/mtr
	12mm dia bar for column mat							
	F2	2	22	2.90	=	127.60		
		2	24	3.10	=	148.80		
						276.40	mtr	
					@	**0.89**	**246.00**	Kg/mtr
	12mm dia bar for column mat							
	F3	3	33	3.00	=	297.00		
		3	30	3.30	=	297.00		
						594.00	mtr	
					@	**0.89**	**528.66**	Kg/mtr
	12mm dia bar for column mat Bottom Mat							
	F4	6	37	3.40	=	754.80		
		6	34	3.70	=	754.80		
						1509.60	mtr	
					@	**0.89**	**1343.54**	Kg/mtr
	12mm dia bar for column mat Top Mat							
	F4	6	37	3.40	=	754.80		
		6	34	3.70	=	754.80		
						1509.60	mtr	
					@	**0.89**	**1343.54**	Kg/mtr
	16mm dia bar for column mat Bottom Mat							
	F5	2	25	3.70	=	185.00		
		2	24	3.90	=	187.20		
						372.20	mtr	
					@	**1.58**	**588.08**	Kg/mtr
	16mm dia bar for column mat Bottom Mat							
	F6	1	41	4.10	=	168.10		
		1	40	4.30	=	172.00		
						340.10	mtr	
					@	**1.58**	**537.36**	Kg/mtr
	16mm dia bar for column mat Top Mat							
	F6	1	28	4.10	=	114.80		

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			1	26	4.30	=	111.80		
							226.60	mtr	
						@	**1.58**	**358.03**	Kg/mtr
	12mm dia bar for column mat Top Mat								
	F6		1	29	2.55	=	73.95		
			1	24	3.10	=	74.40		
							148.35	mtr	
						@	**0.89**	**132.03**	Kg/mtr
	Chair For Double Mat								
	25mm dia bar for column mat								
			12	4	3.80	=	182.40		
							182.40	mtr	
						@	**3.85**	**702.24**	Kg/mtr
	Retaining Wall								
	12mm dia bar Bottom Mat								
			2	490	1.70	=	1666.00		
			2	12	49.00	=	1176.00		
							2842.00	mtr	
						@	**0.89**	**2529.38**	Kg/mtr
	12mm dia bar Top Mat								
			2	490	1.70	=	1666.00		
			2	12	49.00	=	1176.00		
							2842.00	mtr	
						@	**0.89**	**2529.38**	Kg/mtr
	12mm dia bar								
			2	40	82.00	=	6560.00		
			2	547	6.00	=	6564.00		
							13124.00	mtr	
						@	**0.89**	**11680.36**	Kg/mtr
	Chair For Double Mat								
	12mm dia bar for mat								
			1	30	0.95	=	28.50		
							28.50	mtr	
						@	**0.89**	**25.37**	Kg/mtr
	Column Bars Footing To Above the Plinth Beam Lapping								
	16mm dia bar								
	C1		4	4	4.00	=	64.00		
			4	10	6.00	=	240.00		
							304.00	mtr	
						@	**1.58**	**480.32**	Kg/mtr
	16mm dia bar								
	C2		2	10	6.00	=	120.00		
			2	6	4.00	=	48.00		
							168.00	mtr	
						@	**1.58**	**265.44**	Kg/mtr
	16mm dia bar								
	C3		3	8	6.00	=	144.00		
			3	8	4.00	=	96.00		
							240.00	mtr	
						@	**1.58**	**379.20**	Kg/mtr
	20mm dia bar								
	C4		6	6	6.00	=	216.00		

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